



October 4, 2016

VIA ELECTRONIC FILING

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: *Amendment of the Commission's Rules with Regard to Commercial Operations in the
3550-3650 MHz Band, GN Docket No. 12-354*

Dear Ms. Dortch:

On September 30, 2016, Dave Wright and Paul Petrus of Ruckus Wireless, Inc. (a wholly owned subsidiary of Brocade Communications Systems, Inc.) ("Ruckus"), met with Edward Smith, Wireless Advisor to Chairman Wheeler; Paul Powell and Kamran Etemad of the Wireless Technology Bureau, and Ira Keltz and Rashmi Doshi of the Office of Engineering and Technology; and Johnna Thomas, Wireless Advisor to Commissioner Rosenworcel. During those meetings, Messrs. Wright and Petrus discussed the subject matter presented in the attached presentation.

If you have any questions, please do not hesitate to contact me.

Respectfully submitted,

/s/ Steve Martin

Steve Martin
Senior Vice President/GM Emerging Technologies
Ruckus Wireless, Inc.

Attachment

3.5 GHz CBRS Discussion and OpenG[™] Overview

for the Federal Communication Commission
September 30, 2016

Now part of Brocade



BROCADE 

Storage Networking
Data Center Networking
Edge Networking
Mobility Solutions

BROCADE 

Wi-Fi Infrastructure
Location, Security, Policy
Cloud Services
In-Building LTE (OpenG)





Brocade | Ruckus Post-Acquisition

\$2.7+ Billion in
Annual Revenue

5,700+ Employees
Worldwide

Customers in 148+
Countries

Edge Networks:
• 650+ engineers

Wireless growth > industry avg.
Wired growth > industry avg.

1 Service
Provider
Wi-Fi

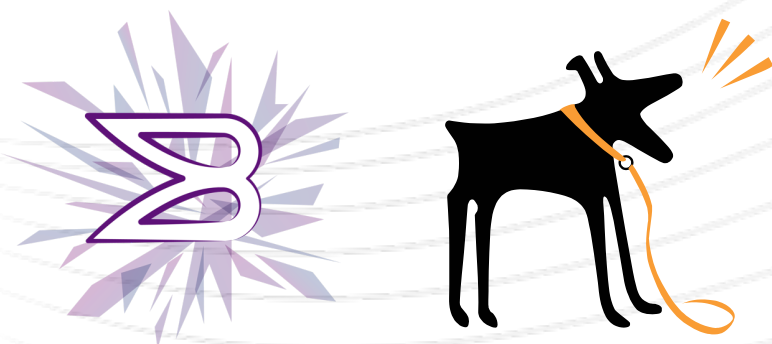
1 Storage Area
Networking

1 Hospitality
Wi-Fi

2 Data Center
Networking

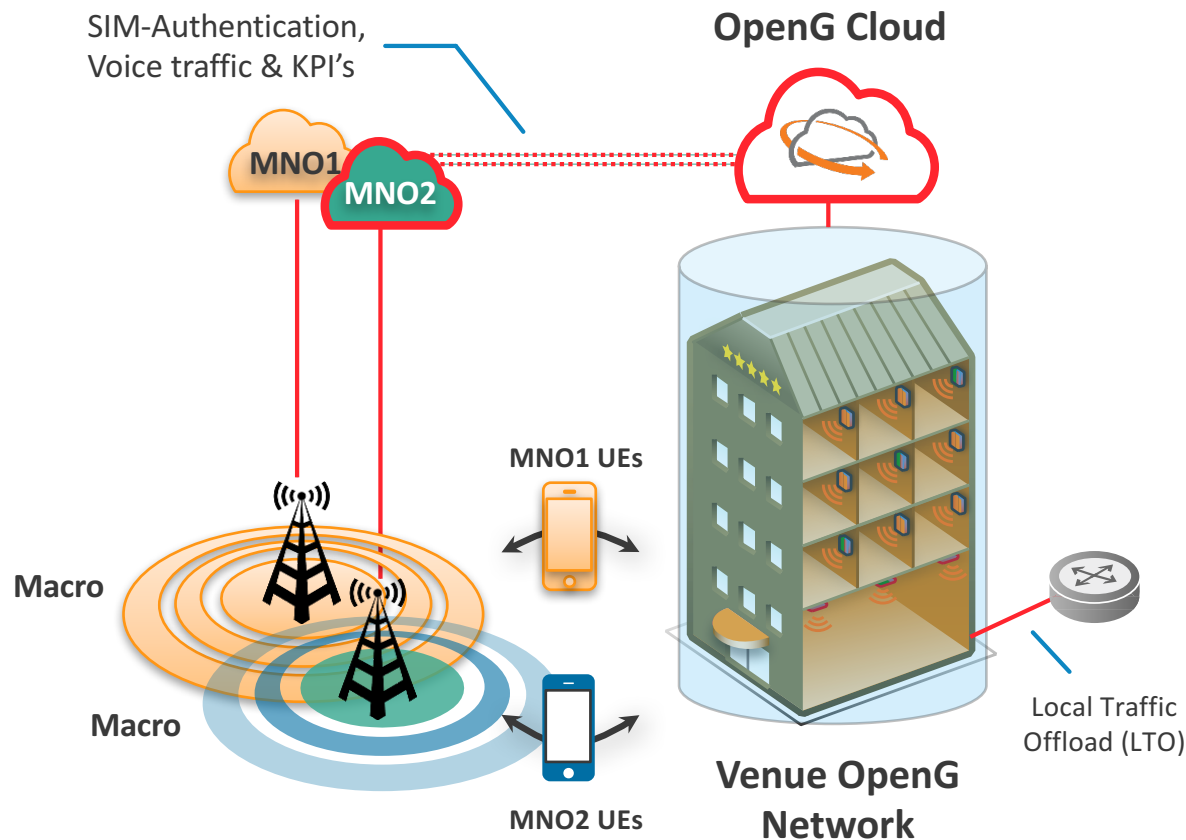
3 Enterprise Edge
Networking in
the U.S. & EMEA

3 Enterprise
Wireless
LAN



Ruckus OpenG™

End-to-End Solution for In-Building Cellular Coverage



- 1 Coordinated Shared Spectrum
 - +
 - 2 LTE Small Cells
 - +
 - 3 Neutral Host Network (NHN)
 - =
- In-Building Cellular
deployed like Wi-Fi**

The Ruckus SmartCell™ Q210 LTE Access Point (CBSD)



Field add-on to H510 WiFi AP

- Snaps onto bottom of H510
- Power from H510 USB
- LAN from H510 Ethernet switch

Ideal for Hospitality & MDU

- Approx. 1,000 sq ft coverage
- 16 concurrent active LTE Users
- 150 Mbps throughput

Other Planned OpenG Access Points (CBSDs)

Enterprise/Carrier Class Indoor AP

- Standalone, planned as an overlay to existing Wi-Fi networks on an n:1 basis



Carrier Class Outdoor AP

- Leverage our heritage with outdoor Wi-Fi APs
- Tx Power analogous to 5GHz UNII 1 and 3



Benefits of Ruckus OpenG



For Enterprises

- Significant reduction in customer and employee dissatisfaction
- Supports subscribers from all MNOs
- No complex technical signoff with MNOs
- Predictable cost and service models



For Managed Service Providers

- New business opportunity, practical in-building cellular coverage for mid-tier enterprise & venues
- Similar tools and processes as Wi-Fi managed services



For Mobile Network Operators

- Zero-cost in-building coverage and capacity expansion at massive scale
- Maintain subscriber revenue and control
- KPI monitoring to ensure adequate end user experience within buildings

Wireless Innovation Forum

Spectrum Sharing Committee



Ruckus Participation

- Member of the Steering Group
- Active in all Working Groups
- Chair the WG1 Domain Proxy Task Group

Spectrum Sharing Committee

Steering Group

Working Group 1 - Operational and Functional Requirements

Working Group 2 - Security Requirements

Working Group 3 - Protocol Specifications

Working Group 4 - Testing and Certification

Working Group 5 - Operations

The CBRS Alliance

Mission & Purpose

Support the development, commercialization, and adoption of LTE solutions for the US 3.5 GHz Citizens Broadband Radio Service (CBRS).

- Evangelize CBRS technology and applications
- Define and drive necessary technology requirements
- Establish certifications to ensure vendor interoperability

Key Objective

Widespread adoption of CBRS Alliance Certified infrastructure equipment

Ruckus Participation

- Founding Member / Board Member
- Active in all Working Groups
- Chair the Marketing Working Group

Ruckus pre-Commercial CBRS Activity

Multiple demonstrations and trials of CBRS Technology

- First demonstrations in May/June
- Utilizing CBRS Band experimental licenses
- Collaborating with SAS providers and client technology partners
- Demonstrating incumbent protection by SAS
- Field trials have begun (network operators, neutral host providers, and client device manufacturers)
- Demonstrating commercial viability and good user experience

BROCADE[®]



THANK YOU!